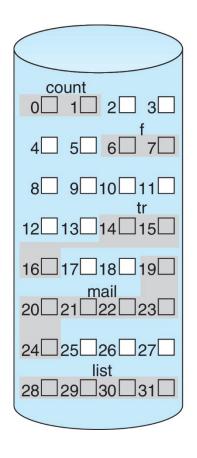
## **Allocation Methods**



| directory |       |        |
|-----------|-------|--------|
| file      | start | length |
| count     | 0     | 2      |
| tr        | 14    | 3      |
| mail      | 19    | 6      |
| list      | 28    | 4      |
| f         | 6     | 2      |

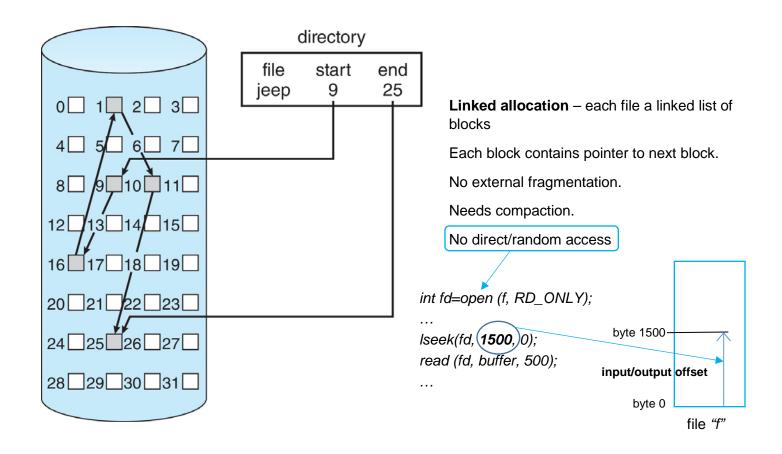
Contiguous allocation – each file occupies set of contiguous blocks

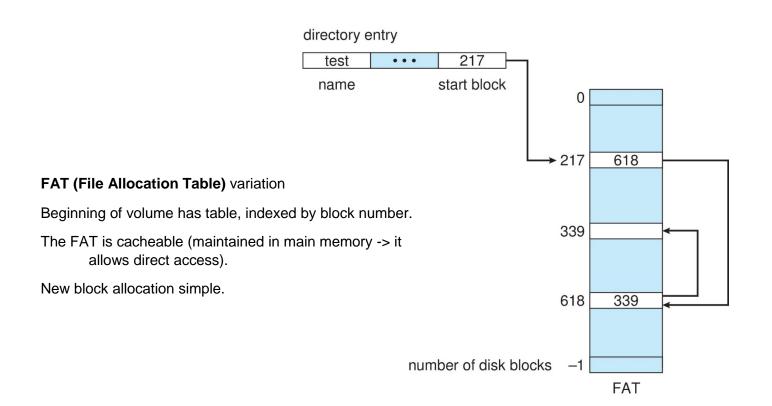
Best performance in most cases.

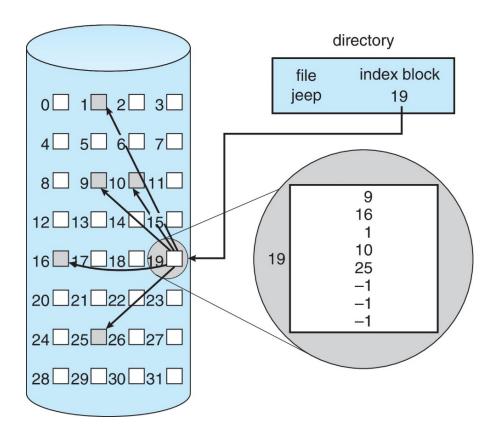
Simple – only starting location (block #) and length (number of blocks) are required.

Problems include finding space for file, knowing file size, need for compaction off-line (downtime) or on-line.

External and internal fragmentation.







**Indexed Allocation -** Each file has its own index block(s) of pointers to its data blocks Need index table for each file.

Direct access.

Dynamic access without external fragmentation, but have overhead of index block.